GefenTV

SD Personal Video Recorder

GTV-SD-PVR

User Manual

www.gefentv.com

1080P PROGRESSIVE HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE HDTV HD DVD Blu-ray Disc

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INTRODUCTION

Congratulations on your purchase of the Gefen TV SD PVR. Your complete satisfaction is very important to us.

Gefen TV

Gefen TV is a unique product line catering to the growing needs for innovative home theater solutions. We specialize in total integration for your home theater, while also focusing on going above and beyond customer expectations to ensure you get the most from your hardware. We invite you to explore our distinct product line and hope you find your solutions. Don't see what you are looking for here? Please call us so we can better assist you with your particular needs.

The Gefen TV SD PVR

Records Standard Definition Video onto Removable USB Media

Instant Video Recording to USB Memory Devices = A Speedier and Superior Solution

The Gefen SD Personal Video Recorder (or SD-PVR) allows consumers to implement the functions of a traditional video tape recorder or DVD recorder, but in a faster, simpler and more efficient way using USB flash or USB hard-drive media. By using removable USB devices, consumers can fully exploit instant accessibility and portability of digital recordings in a way not previously possible.

You won't miss the action any more with the Gefen SD-PVR. With a touch of the IR Remote, you'll be able to instantly begin recording programs or video segments when inspiration strikes you. With the capacity to review, fast forward, fast backwards, pause, and erase videos, you'll have unprecedented flexibility in capturing what you want, when you want!

Your Personal Multimedia Playback Center

The Gefen SD-PVR is not just for recording video. You can connect any USB device and scan it for music or videos, even digital picture albums, then play back previously recorded clips and rename or move them.

How It Works

Multiple Video Sources and Displays

The PVR is easy to use. You simply connect your video source(s) to one or all of the SD-PVR's 3 inputs, then connect the Display on any of the up to 3 video output ports (Composite, Component and S-Video). Once the Source(s), the SD-PVR and the Display are powered and connected, you simply select the video source and function that you want using the infrared (IR) remote. If you want to create first-time settings for instant recording and other capabilities, you can go into the friendly On-Screen Display and adjust the settings.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE GEFEN TV SD PVR

- USB media is required to be attached for use of the Gefen TV SD PVR. If there is not a valid USB media device attached to the Gefen TV SD PVR, the unit will display a message on screen and will not allow any operation to be performed.
- Supported USB media includes portable USB flash drives and USB external hard drives.
- Supported file systems include FAT, FAT16, and FAT32. NTFS hard drives are not supported.
- Supported file formats are AVI/MPG/DIVX/MP3/WMA/JPG/GIF/BMP
- The Gefen TV SD PVR will not record Macrovision protected content.
- 480i and 576i are the only supported input, output, and recording resolutions.
- Audio support is from analog stereo 2 channel L/R RCA inputs.
- All outputs are active at all times. For example, if video is input from a component source, video will be output via the component, composite, and s-video outputs. All video outputs will mirror the selected source on the Gefen TV SD PVR.

FEATURES

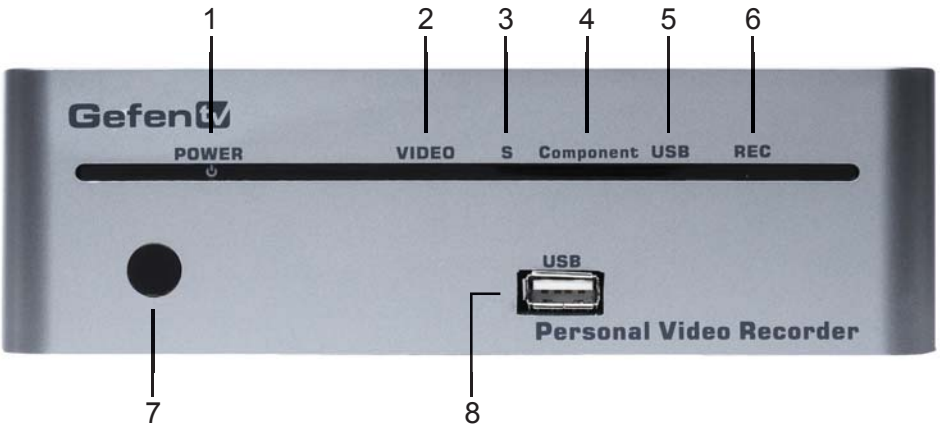
Features

- Video recording and playback at resolutions of 480i and 576i
- Instant video recording via a single button on the remote control
- Pause, mute, fast forward & fast backwards playback controls
- Media scanning function to locate audio/video files automatically
- Playback of externally imported videos, music, pictures
- 3 different quality settings for storage compression
- Friendly graphical interface for controlling settings
- 1/4x-20x digital picture zoom for viewing photos and movies

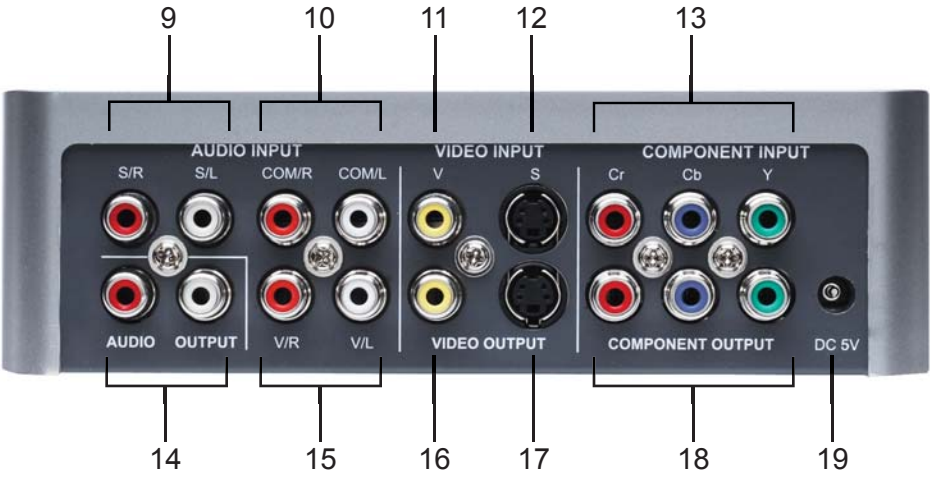
Package Includes

(1) Gefen Standard-Definition Personal Video Recorder
(1) 5V DC power supply
(1) Remote Control, Infra-Red handheld type
(1) User's Manual

Front Panel



Back Panel



PANEL DESCRIPTIONS

1 POWER LED
The Power LED will be active when the unit is on. There is no LED active when the unit is in off.

2 VIDEO LED
This Video LED will be active when a valid composite source is connected and selected.

3 S LED
This S LED will be active when a valid s-video source is connected and selected.

4 COMPONENT LED
This Component LED will be active when a valid component source is connected and selected.

5 USB LED
This USB LED will be active when the user is in USB mode.

6 REC LED
This Rec LED will be active when the unit is recording.

7 IR RECEIVER
This remote must have a clear line-of-sight path to the IR receiver. Obstructions in front of the IR receiver will prevent operation from the remote control.

8 USB A INPUT PORT
This port will accept a USB A type input. Usable media includes USB flash drives and external hard drives.

9 S-VIDEO AUDIO INPUT
L/R RCA stereo analog audio input for s-video.

10 COMPONENT AUDIO INPUT
L/R RCA stereo analog audio input for component video.

11 COMPOSITE VIDEO INPUT
480i and 576i composite video input.

12 S-VIDEO INPUT
480i and 576i s-video input.

13 COMPONENT VIDEO INPUT
480i and 576i component video input.

14 ANALOG AUDIO OUTPUT
L/R RCA stereo analog audio output. The audio for the currently selected source will be output from these ports.

15 COMPOSITE AUDIO INPUT
L/R RCA stereo analog audio input for composite video.

16 COMPOSITE VIDEO OUTPUT
480i and 576i composite video output.

17 S-VIDEO OUTPUT
480i and 576i s-video output.

18 COMPONENT VIDEO OUTPUT
480i and 576i component video output.

CONNECTING THE GEFEN TV SD PVR

How to Connect the Gefen TV SD PVR

1. Connect the source devices (composite, s-video, or component) to the Gefen TV SD PVR's video inputs using user supplied video cables. Any or all video inputs can be connected at the same time.

2. Connect each of the source device's audio outputs to the appropriate Gefen TV SD PVR audio inputs using user supplied analog stereo L/R RCA cables.

3. Connect the desired video output type (composite, s-video, or component) to the display using user supplied video cables.

4. Connect the Gefen TV SD PVR audio output to the display's audio input using a user supplied analog stereo L/R RCA cable.

5. Connect the USB media to the Gefen TV SD PVR's USB input port.

6. Connect the included 5V DC power supply to the Gefen TV SD PVR and a wall power outlet.

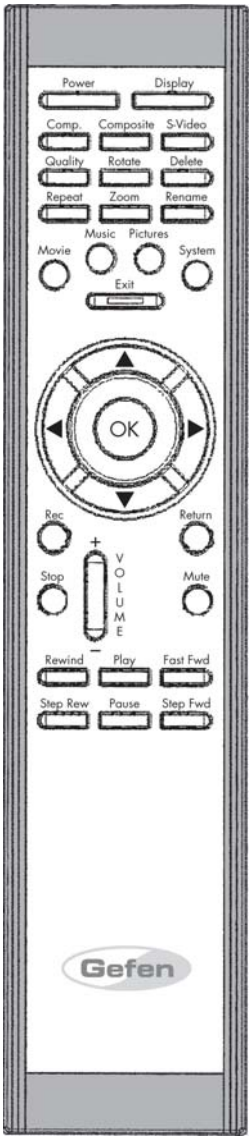
7. Turn the display on first and then the source devices.

NOTE: The Gefen TV SD PVR will not function without a USB media device attached. Please ensure that a valid USB media device is attached before attempting to operate the Gefen TV SD PVR.

OPERATING THE GEFEN TV SD PVR

The Gefen TV SD PVR uses a GUI (graphical user interface) that is displayed on-screen for ease of navigation of the features and settings. All of the available commands and operations are conducted by using the included IR remote control.

REMOTE CONTROL



POWER
Turns the unit on/off.

DISPLAY
Brings up the on-screen information panel.

COMP
Switches to the component input.

COMPOSITE
Switches to the composite input.

S-VIDEO
Switches to the s-video input.

QUALITY
Switches the recording quality (see page 18).

ROT
Rotates an image 90° counter-clockwise when viewing pictures.

DELETE
Deletes the currently selected item.

REPEAT
Sets the repeat mode for playing movies and music.

MOVIE
Enters the movie selection menu (see page 19).

MUSIC
Enters the music selection menu (see page 26).

PICTURES
Enters the picture selection menu (see page 32).

SYSTEM
Enters the system menu (see page 39).

EXIT
Exits the current menu and returns to the last menu. Enters USB mode when watching a live source. Returns to watching the previous live source when in USB mode.

REC
Begins recording the currently selected source.

STOP
Stops the current recording.

VOLUME + AND -
Increases and decreases the audio volume.

MUTE
Mutes the audio output. Press again to resume audio output.

REWIND
Rewind during playback of content.

PLAY
Begins playing the currently selected item. Resumes playback when recording, slide-show, or music is paused.

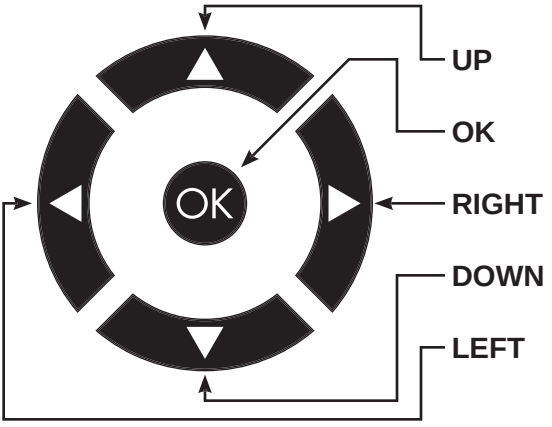
FAST FWD
Fast forward during playback of content.

STEP REW
Rewind playback by a single frame.

PAUSE
Pause the currently playing content. To resume playback press the Play.

STEP FWD
Fast forward playback by a single frame.

GUI NAVIGATION



Use the directional keys to navigate the GUI. Use the OK button to confirm changes of menu options.

INITIAL SETUP

SECTION 1

TURNING ON THE UNIT FOR THE FIRST TIME

Turn on the Gefen TV SD PVR by pressing the **Power** button on the IR remote control. The Power and USB LED should become active, and your display should show the initial USB scan screen (1-1)

1-1

The Gefen TV SD PVR will warn you if either a USB device is not found (1-2) or if the connected USB device is not compatible with the unit (1-3).

1-2

1-3

HOME SCREEN AND USB MODE

The **Home Screen** (1-4) will display once a valid USB device is connected and detected. This is the main screen from which all of the recorded and stored movies, pictures, and music can be accessed. Access to system tools and settings are also made through this screen. This screen is only viewable while in **USB Mode**. This mode that will always be displayed if there is no external inputs connected to the Gefen TV SD PVR. Pressing the **Exit** button from the **Home Screen** will begin the **Auto-Detect Feature** which will cycle through all of the inputs to determine if any valid sources are properly connected. Please see page 14 for more information on the **Auto-Detect Feature**.

1-4

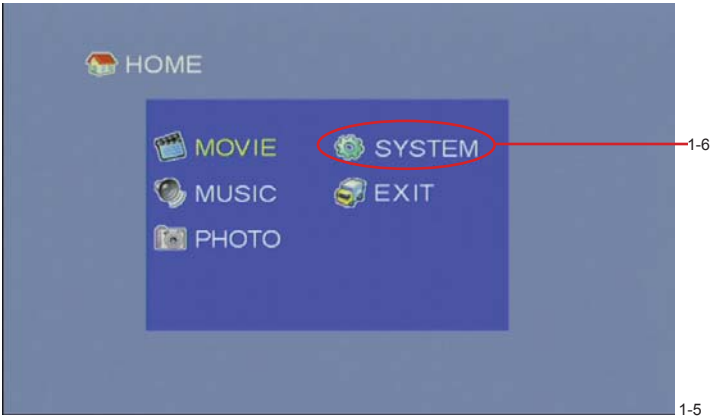
The **Home Screen** (1-4) is formatted with the following sections:

MOVIE	Page 19
MUSIC	Page 26
PHOTO	Page 32
SYSTEM	Page 39
EXIT	Exits USB Mode and starts the **Auto-Detect Feature**

INITIAL FORMAT

To initially prepare the unit for use, it is recommended that the currently connected USB media be formatted by the Gefen TV SD PVR. Please follow the steps below to format the USB media device.

1. From the **Home Screen** (1-5), use the included IR remote to navigate to the **System Menu** (1-6) item and press **OK.**

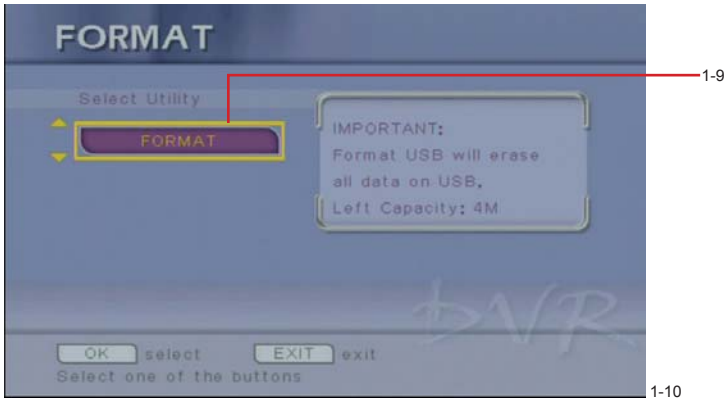


1-6

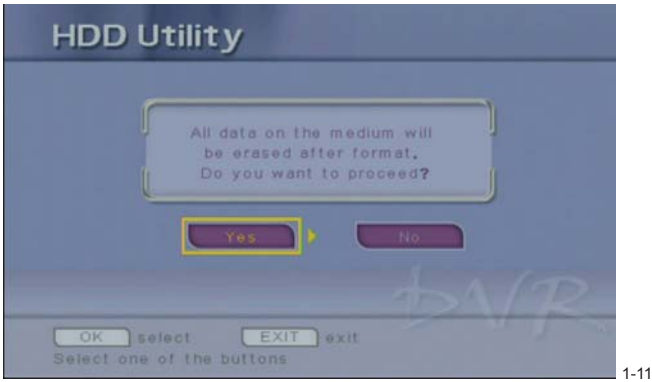
1-5

2. From the **System Menu**(1-8), navigate to the **Format** option (1-7) and press **OK**.

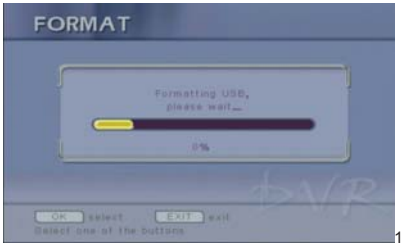
3. Select the **Format** option (1-9) in the **Format** window (1-10) and press **OK**.



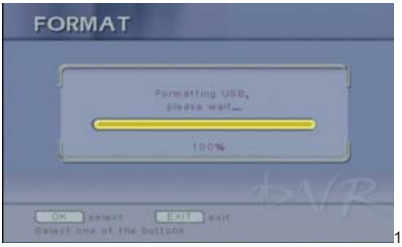
4. The **HD Utility** window (1-11) will appear and ask for confirmation to begin formatting. Select the **YES** option and press **OK** to start formatting the USB media device.



5. The **Format** window (1-12) will show the progress of the format. The formatting process will be complete when the status bar reads 100% (1-13).



1-12



1-13

6. Once the formatting process is finished (1-14), press any button on the remote to return to the **Format** window (1-15). Press the **Exit** button once to return to the **System** menu and twice to return to the **Home Screen** (1-16).

1-14

1-15

1-16

WATCHING A LIVE SOURCE

SECTION 2

SELECTING A LIVE VIDEO SOURCE & AUTO-DETECT FEATURE

A source can be watched in real-time. To access the live source feed, simply press the **EXIT** button while in **USB Mode** (**Home Screen** 2-1).

2-1

Once you exit **USB Mode** the **Auto-Detect Feature** will immediately start scanning the input ports for a valid video signal. Once a valid signal is detected, it will remain on that input until the user selects another input source. The scanning process is done in the following order:

Component ⟶ S-Video ⟶ Composite ⟶ USB Mode*

*If a valid video source is not detected on any of the inputs, the unit will return to **USB Mode**.

To manually select a specific input, press the corresponding input button on the included IR remote.

REMOTE BUTTON	*INPUT*
COMP	Component
COMPOS	Composite
S-VIDEO	S-Video

If a selected input does not carry a valid video source, the unit will automatically switch to the next input source following the order listed above.

INFORMATION DISPLAY PANEL

While watching a live video source it is possible to view some basic information on-screen using the **Information Display Panel**. This includes the current date and time, input source, recording quality, and remaining recording time.

The **Information Display Panel** is activated by pressing the **Display** button on the included IR remote. Pressing the button once will bring up the **Information Display Panel**. The **Information Display Panel** will remain on-screen until the **Display** button is pressed once more to hide it. A layout of the **Information Display Panel** can be found below (2-2).

2-2

1 RECORDING MEDIUM

This indicates what type of recording device is connected. This will always be listed as USB.

2 CURRENT INPUT

This icon will identify which current input is selected.

Displayed	Source
YUV	Component
AV	Composite
S-Video	S-Video

3 RECORDING QUALITY

This icon will identify what the current recording quality is set at. For detailed information on the recording bit rates and space, see page 18.

Displayed	Quality
ECO	Economy
NOR	Normal
EX	Extra

4 ESTIMATED REMAINING RECORD TIME

This will display the remaining estimated record time that is left on the attached USB media device. This number will be different depending on the **Recording Quality** that is currently selected. See page 18 for more information.

5 DATE

Displays the current date. The date can be adjusted from the **System Menu** on page 43.

6 TIME

Displays the current time. The time can be adjusted from the **System Menu** on page 43.

RECORDING A SOURCE

SECTION 3

SELECTING A LIVE VIDEO SOURCE TO RECORD

Refer to **Section 2** starting on page 14 for instructions on how to view a live source. In example 3-1, the component source is selected with the **Information Display Panel** active.

3-1

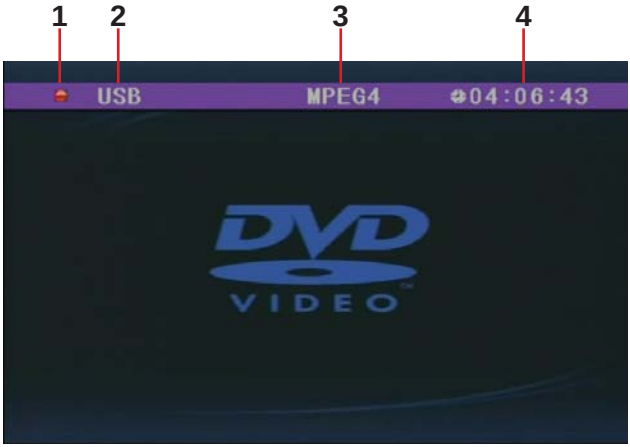
RECORDING A LIVE VIDEO FEED

To begin recording a live video feed, press the **REC** button on the IR remote control. A **Recording Indicator** (3-2) will appear on-screen to inform the user that a recording is in progress.

The **Recording Indicator** will remain on-screen while the unit is recording the live video source.

RECORDING INFORMATION DISPLAY PANEL

Pressing the **Display** button on the IR remote while recording will bring up the **Recording Information Display Panel** as shown below (3-3).



3-3

1 RECORDING ICON
This will indicate that a recording is active.

2 RECORDING MEDIUM
This indicates what type of recording device is connected. This will always be listed as USB.

3 RECORDING FILE TYPE
This indicates what type of file format is being used for the recording. This will always be listed as MPEG4.

4 ESTIMATED REMAINING RECORD TIME
This will display the estimated remaining record time that is left on the attached USB media device. It will actively count down while a recording is in progress. This number is variable and is dependant on the **Recording Quality** that is currently selected. See page 18 for more information.

STOP RECORDING A LIVE VIDEO FEED

When you want to stop recording the live video feed, press the **Stop** button on the remote control (3-4). The unit will pause for a moment to perform some maintenance procedures on the newly created file (3-5) and will continue to display the live video source.

3-4

3-5

The recording will now be accessible in the **Movie Menu** section while in **USB Mode**. Please see section 4 starting on page19 for information on how to access and manage the recordings.

RECORDING QUALITY

SECTION 3A

RECORDING QUALITY OPTIONS

There are 3 **Recording Quality** modes to choose from. Please refer to the table below for detailed information on each mode.

Displayed	Quality	Bit Rate	Gigabytes per Hour
ECO	Economy	2.5	0.25
NOR	Normal	5	0.5
EX	Extra	7	1.25

To view the current **Recording Quality** setting, press the **Display** button while watching a live video source. The **Recording Quality** will be indicated by the icon as displayed in the **Information Display Panel** below (3A-1).

VIEWING AND MANAGING MEDIA

SECTION 4

The following sections will outline the options that are available for watching and managing all of the media files on the Gefen TV SD PVR. Readable file formats that are placed on a connected USB media device are:

AVI / MPG / DIVX / MP3 / WMA / JPG / GIF / BMP

To access any of the media stored on the connected USB media device, the Gefen TV SD PVR must be in **USB Mode**. To access **USB Mode** while watching a live video source, press the **Exit** button on the IR remote control. This mode is also the default mode that is displayed whenever the unit is powered on. You access the **Movie**, **Music**, and **Photo** sections directly by pressing their corresponding keys on the IR remote control.

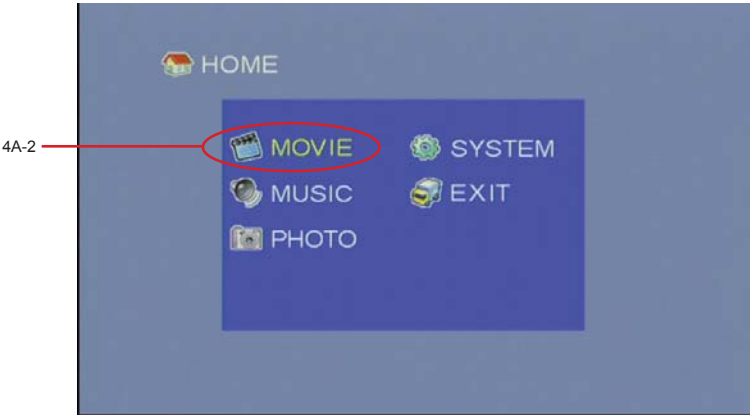
MOVIES

SECTION 4A

This mode can be accessed at anytime while in the **USB Mode** by pressing the **Movie** button on the IR remote control. The only exception is when the user is in the **System Menu**.

MOVIE MENU

From the **Home Screen** (4A-1) in **USB Mode**, navigate to the **Movie Menu** (4A-2) listing and press the **OK** button.



4A-1

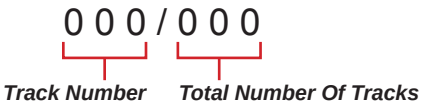
The **Movie Menu** is where all recorded and stored movies will be available for viewing and managing

The **Movie Menu** (4A-3) is where all recorded and stored movies will be available for viewing and managing.

4A-3

1 SELECTED MOVIE TRACK NUMBER

This shows the track number of the selected movie file. The format is as follows:



2 TRACK DURATION

This indicates the time length of the selected track. The format is as follows:

3 THUMBNAIL

Displays a small preview image of the movie. This is derived from the first frame of the movie's content.

4 DIRECTORY

All directories on the connected USB media device that contain valid movie files will be listed here. Pressing the **OK** button on the IR remote control when this item is selected will display a list of these directories (4A-4). Using the IR remote control, you can navigate up and down this menu to select your desired directory.

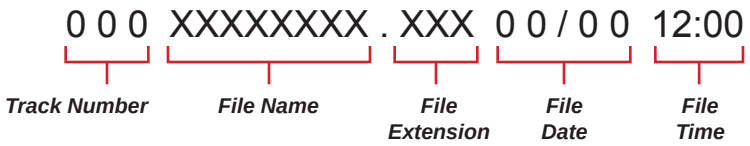
If there are more than 9 total directories with valid movie files, you can either manually scroll down to access the remaining directories, or you can press the **Step Fwd** or **Step Rew** buttons on the IR remote control to navigate forwards and backwards through full pages of directories.

4A-4

The naming structure for directories are limited to eight alpha-numeric characters. Spaces and special characters are not allowed. All directories that exceed these limitations will automatically be truncated. Multiple levels of directories are allowed and each one will be listed as a separate directory in the directory list.

5 FILE

All files in the currently selected directory are listed here. Using the IR remote control, you can navigate up and down this menu to select your desired directory. The files are listed in the following format:

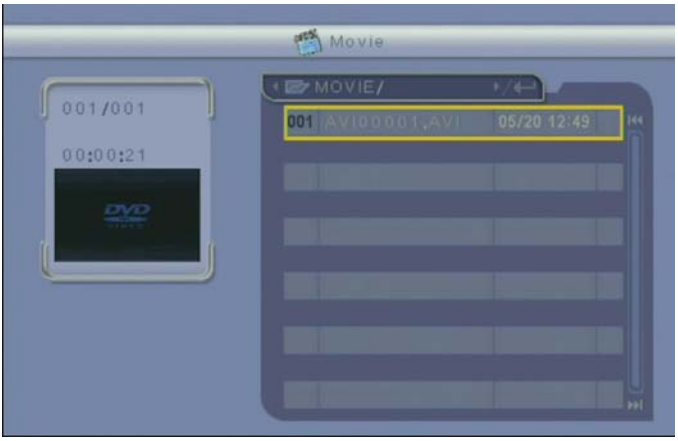


If there are more than 11 total movie files in the selected directory, you can either manually scroll down to access the remaining directories, or you can press the **Step Fwd** or **Step Rew** buttons on the IR remote control to navigate forwards and backwards through full pages of directories.

Long file names in will not have a viewable file extension. Files with long names that exceed the viewable area will be shown without a extension. Recording date and time will still be listed.

PLAYING A MOVIE

From the **Movie Menu** (4A-5), select your desired movie and press the **OK** or button on the IR remote control to begin movie playback.



4A-5

PLAYBACK CONTROLS

Basic playback controls are executed from the included IR remote control. A small icon will briefly appear in the left-hand corner of the screen to indicate which command was used.

STOP
Stops the current movie playback and returns to the **Movie Menu**.

REWIND
Rewind during playback of movie content. The movie rewinds in the following order:

PLAY
Begins playing the currently selected item. Resumes playback when a movie is paused.

FAST FWD
Fast forward during playback of movie content. The movie fast forwards in the following order:

STEP REW
Rewind playback by a single frame when the movie is paused.

PAUSE
Pause the currently playing movie. To resume playback press the Play.

STEP FWD
Fast forward playback by a single frame when the movie is paused.

RIGHT DIRECTIONAL BUTTON
Progress to the next track in the current directory.

LEFT DIRECTIONAL BUTTON
Progress to the previous track in the current directory.

REPEAT FUNCTION

The repeat function can be used to repeat a single movie or an entire directory. By default, movie playback is set to playback all of the movies in the selected directory sequentially, and only once. The **Repeat Mode** is only accessible when in the **Movie Menu**. Press the **Repeat** button on the IR remote control to bring up the **Repeat Mode** menu (4A-6).

4A-6

SEQ PLAY
Sequential playback of all movies in the selected directory once.

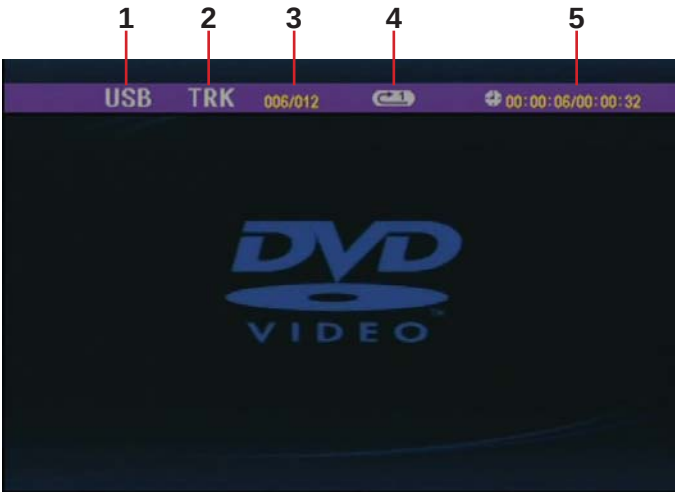
FILE REP
Repeat the current movie file indefinitely.

DIR REPEAT
Same as **SEQ PLAY** but will repeat playback of the entire directory indefinitely.

Select the desired **Repeat Mode** and press the **OK** button on the IR remote control. This setting is global for all movie playback. Any movies that are played after this setting has been changed will execute whichever **Repeat Mode** was selected. The **Repeat Mode** will remain until changed.

MOVIE INFORMATION DISPLAY PANEL

Pressing the **Display** button on the IR remote while playing a movie will bring up the **Movie Information Display Panel** as shown below (4A-7).



4A-7

1 RECORDING MEDIUM

This indicates what type of recording device is connected. This will always be listed as USB.

2 TRACK

This indicates that currently a track is playing.

3 TRACK NUMBER

This shows the track number of the currently playing movie file. The format is as follows:

0 0 0 / 0 0 0

Track Number ***Total Number Of Tracks***

4 REPEAT MODE

This icon displays the currently selected repeat mode. Each **Repeat Mode** is listed below

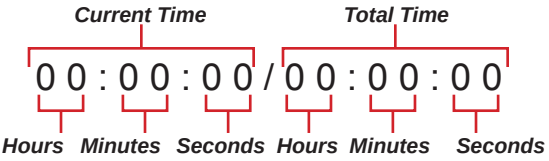
Sequential Play (**SEQ PLAY**)

Repeat Single Track (**FILE REP**)

Directory Repeat (**DIR REPEAT**)

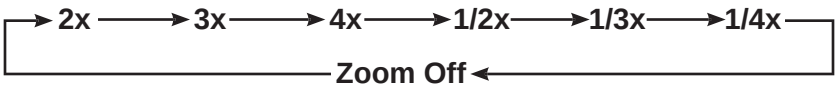
5 TRACK TIME

This displays the current track's playback position in time and the track's total playback time. The time format is as follows:



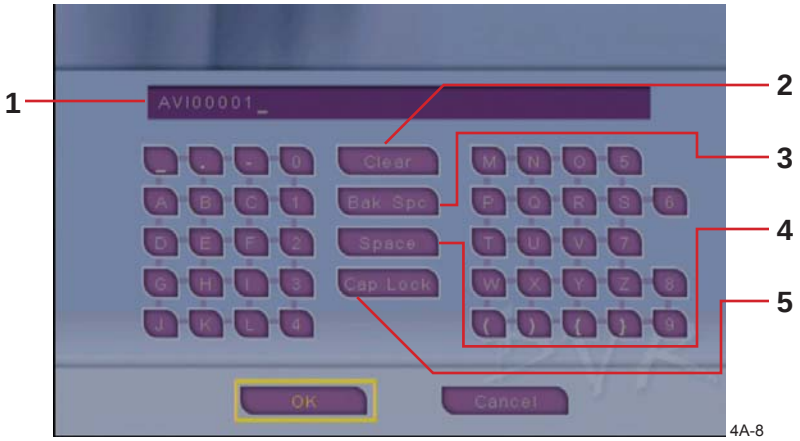
ZOOM FUNCTION

The **Zoom** button can be used to focus in or out of a movie during playback. To zoom into the movie, press the **Zoom** button on the IR remote control during playback or when the movie is paused. The zoom multiplier follows the order below:



RENAMING MOVIES

Movies can be renamed using the on-screen keyboard. From the **Movie Menu**, select the file that you wish to rename and press the **Rename** button on the IR remote control. The on-screen keyboard (4A-8) will appear.



4A-8

1 NAME FIELD

The current name should be indicated here. When characters are selected they will be displayed in this field.

2 CLEAR KEY
This will clear the entire **Name Field**.

3 BACK SPACE KEY
This key will delete the previous character.

4 SPACE KEY
This key will add a space in the **Name Field**.

5 CAPS LOCK KEY
This key will toggle between lowercase and uppercase letters. By default, all keys will appear in the uppercase form.

Using the **Directional** buttons on the IR remote control, select the key you wish to use and press the **OK** button to use it. Once the desired name has been entered, navigate to the OK key and press **OK** on the IR remote control to confirm changes. You can cancel the entire process and revert back to the previous name by selecting the CANCEL key before any new changes have been saved.

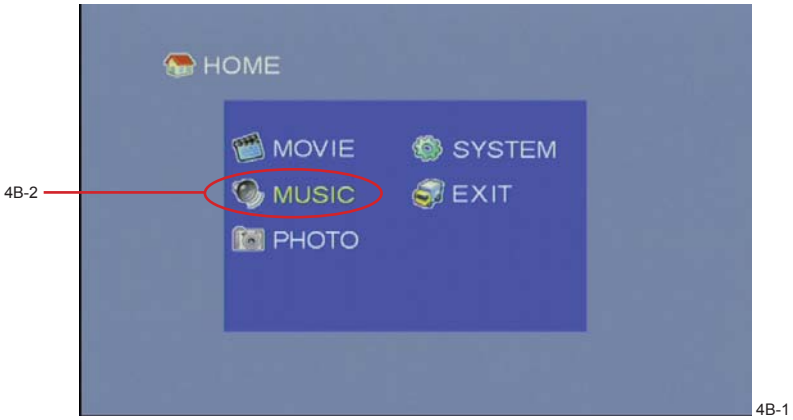
MUSIC

SECTION 4B

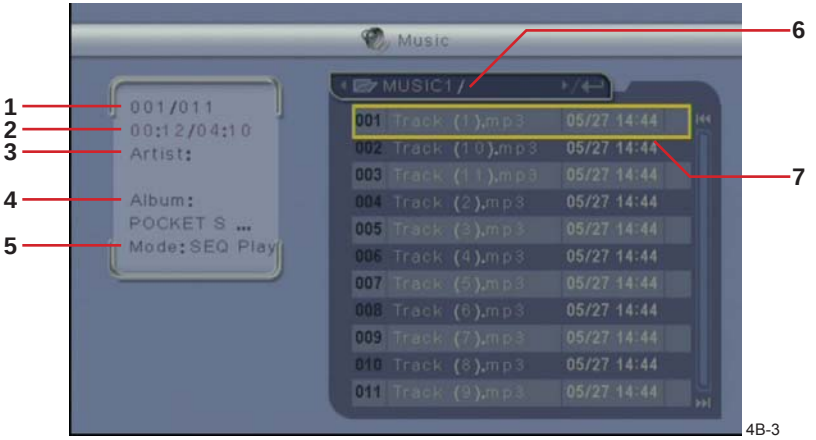
This mode can be accessed at anytime while in the **USB Mode** by pressing the **Music** button on the IR remote control. The only exception is when the user is in the **System Menu**.

MUSIC MENU

From the **Home Screen** (4B-1) in **USB Mode**, navigate to the **Music Menu** (4B-2) listing and press the **OK** button.



The **Music Menu** (4B-3) is where all stored music will be available for listening and managing.



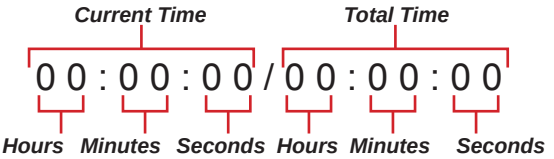
4B-3

1 SELECTED MOVIE TRACK NUMBER

This shows the track number of the selected music file. The format is as follows:

2 TRACK TIME

This displays the current track's playback position in time and the track's total playback time. The time format is as follows:



3 ARTIST

Artist information is displayed here if available.

4 ALBUM

Album information is displayed here if available.

5 REPEAT MODE

The currently selected **Repeat Mode** is displayed here. To change the **Repeat Mode** please see the **Repeat Mode** function later in this section.

6 DIRECTORY

All directories on the connected USB media device that contain valid music files will be listed here. Pressing the **OK** button on the IR remote control when this item is selected will display a list of these directories (4B-4). Using the IR remote control, you can navigate up and down this menu to select your desired directory.

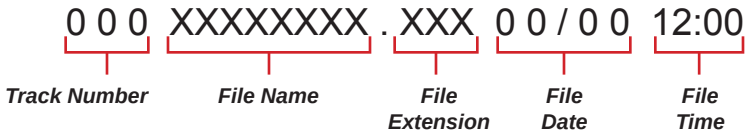
If there are more than 9 total directories with valid music files, you can either manually scroll down to access the remaining directories, or you can press the **Step Fwd** or **Step Rew** buttons on the IR remote control to navigate forwards and backwards through full pages of directories.

4B-4

The naming structure for directories are limited to eight alpha-numeric characters. Spaces and special characters are not allowed. All directories that exceed these limitations will automatically be truncated. Multiple levels of directories are allowed and each one will be listed as a separate directory in the directory list.

7 FILE

All files in the currently selected directory are listed here. Using the IR remote control, you can navigate up and down this menu to select your desired directory. The files are listed in the following format:



If there are more than 11 total music files in the selected directory, you can either manually scroll down to access the remaining directories, or you can press the **Step Fwd** or **Step Rew** buttons on the IR remote control to navigate forwards and backwards through full pages of directories.

Long file names in will not have a viewable file extension. Files with long names that exceed the viewable area will be shown without a extension. Recording date and time will still be listed.

PLAYING A MUSIC TRACK

From the **Music Menu** (4A-5), select your desired movie and press the **OK** or **Play** button on the IR remote control to begin music playback.

4A-5

PLAYBACK CONTROLS

Basic playback controls are executed from the included IR remote control. A small icon will briefly appear in the left-hand corner of the screen to indicate which command was used.

STOP
Stops the current music track playback.

REWIND
Rewind during playback of music content. The music track rewinds in the following order:

PLAY
Begins playing the currently selected item. Resumes playback when a music track is paused.

FAST FWD
Fast forward during playback of music content. The music track fast forwards in the following order:

PAUSE
Pause the currently playing music track. To resume playback press the Play.

REPEAT FUNCTION

The repeat function can be used to repeat a single music track or an entire directory. By default, music playback is set to playback all of the music tracks in the selected directory sequentially, and only once. The **Repeat Mode** is only accessible when in the **Music Menu**. Press the **Repeat** button on the IR remote control to bring up the **Repeat Mode** menu (4A-6).

4A-6

SEQ PLAY
Sequential playback of all music tracks in the selected directory once.

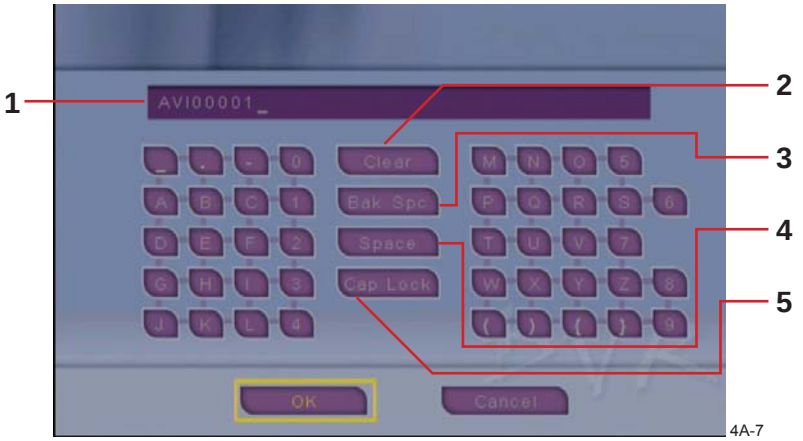
FILE REP
Repeat the current music track indefinitely.

DIR REPEAT
Same as **SEQ PLAY** but will repeat playback of the entire directory indefinitely.

Select the desired **Repeat Mode** and press the **OK** button on the IR remote control. This setting is global for all music playback. Any music tracks that are played after this setting has been changed will execute whichever **Repeat Mode** was selected. The **Repeat Mode** setting will remain until changed.

RENAMING MUSIC TRACKS

Music tracks can be renamed using the on-screen keyboard. From the **Music Menu**, select the file that you wish to rename and press the **Rename** button on the IR remote control. The on-screen keyboard (4B-8) will appear.



1 NAME FIELD
The current name should be indicated here. When characters are selected they will be displayed in this field.

2 CLEAR KEY
This will clear the entire **Name Field**.

3 BACK SPACE KEY
This key will delete the previous character.

4 SPACE KEY
This key will add a space in the **Name Field**.

5 CAPS LOCK KEY
This key will toggle between lowercase and uppercase letters. By default, all keys will appear in the uppercase form.

Using the **Directional** buttons on the IR remote control, select the key you wish to use and press the **OK** button to use it. Once the desired name has been entered, navigate to the OK key and press **OK** on the IR remote control to confirm changes. You can cancel the entire process and revert back to the previous name by selecting the CANCEL key before any new changes have been saved.

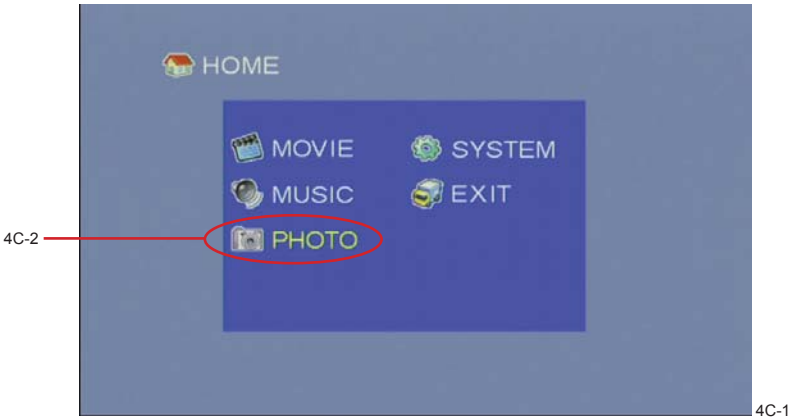
PHOTOS

SECTION 4C

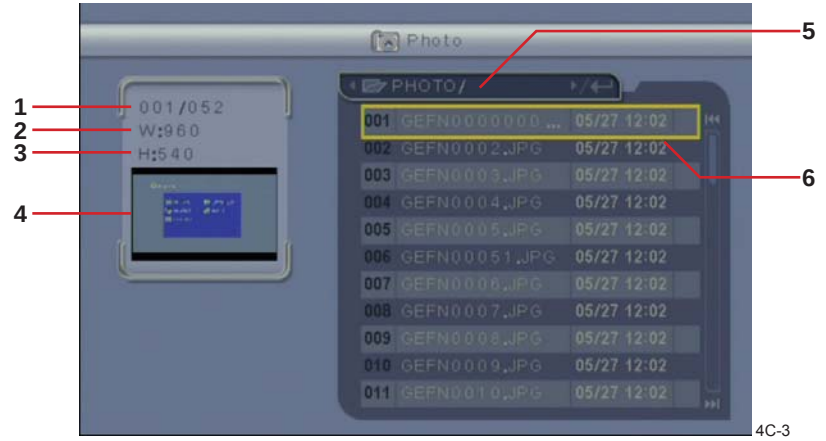
This mode can be accessed at anytime while in the **USB Mode** by pressing the **PIC** button on the IR remote control. The only exception is when the user is in the **System Menu**.

PHOTO MENU

From the **Home Screen** (4C-1) in **USB Mode**, navigate to the **Photo Menu** (4C-2) listing and press the **OK** button.

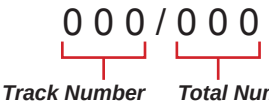


The **Photo Menu** (4C-3) is where all stored photos will be available for viewing and managing.



1 SELECTED PHOTO NUMBER

This shows the track number of the selected photo file. The format is as follows:



2 PHOTO WIDTH

This displays the current photo's pixel width.

3 PHOTO HEIGHT

This displays the current photo's pixel height.

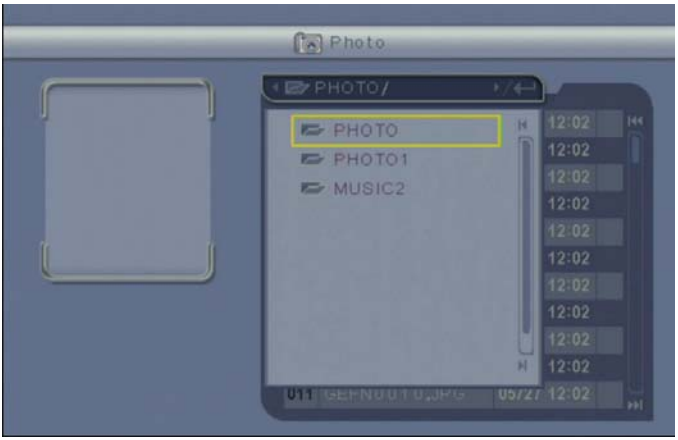
4 THUMBNAIL

Displays a small preview image of the photo.

5 DIRECTORY

All directories on the connected USB media device that contain valid photo files will be listed here. Pressing the **OK** button on the IR remote control when this item is selected will display a list of these directories (4C-4). Using the IR remote control, you can navigate up and down this menu to select your desired directory.

If there are more than 9 total directories with valid photo files, you can either manually scroll down to access the remaining directories, or you can press the **Step Fwd** or **Step Rew** buttons on the IR remote control to navigate forwards and backwards through full pages of directories.

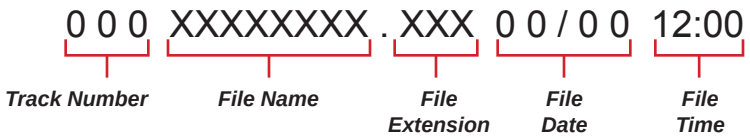


4C-4

The naming structure for directories are limited to eight alpha-numeric characters. Spaces and special characters are not allowed. All directories that exceed these limitations will automatically be truncated. Multiple levels of directories are allowed and each one will be listed as a separate directory in the directory list.

6 FILE

All files in the currently selected directory are listed here. Using the IR remote control, you can navigate up and down this menu to select your desired directory. The files are listed in the following format:



If there are more than 11 total photo files in the selected directory, you can either manually scroll down to access the remaining directories, or you can press the **Step Fwd** or **Step Rew** buttons on the IR remote control to navigate forwards and backwards through full pages of directories.

Long file names in will not have a viewable file extension. Files with long names that exceed the viewable area will be shown without a extension. Recording date and time will still be listed.

PLAYING A PHOTO

From the **Photo Menu** (4C-5), select your desired photo and press the **OK** button on the IR remote control to display the photo. You can also press the **Play** button to start a slide-show with the currently selected photo.

4C-5

When the **OK** button is pressed, the selected photo will be displayed and paused. This is so that the selected image will remain on-screen until the user either presses the **Play** button to start a slide-show or presses the **Stop** button to end photo playback.

When a slide-show is playing, each photo will be displayed for 5 seconds before progressing to the next photo in the current directory.

PLAYBACK CONTROLS

Basic playback controls are executed from the included IR remote control. A small icon will briefly appear in the left-hand corner of the screen to indicate which command was used.

STOP
Stops the current photo playback.

PLAY
Resume playing the slide-show if it is currently paused. Pressing this button from the **Photo Menu** will start a slide-show.

PAUSE
Pause the currently playing photo. To resume slide-show playback press the **Play** button.

RIGHT DIRECTIONAL BUTTON
Progress to the next photo in the current directory. Pressing this button while the slide-show is paused will advance to the next photo and automatically pause it.

LEFT DIRECTIONAL BUTTON
Progress to the previous photo in the current directory. Pressing this button while the slide-show is paused will advance to the previous photo and automatically pause it.

REPEAT FUNCTION

The repeat function can be used to repeat a single photo or an entire directory. By default, photo playback is set to playback all of the photos in the selected directory sequentially, and only once as a slide-show. The **Repeat Mode** is only accessible when in the **Photo Menu**. Press the **Repeat** button on the IR remote control to bring up the **Repeat Mode** menu (4C-6).

4C-6

SEQ PLAY
Sequential playback of all photos in the selected directory once.

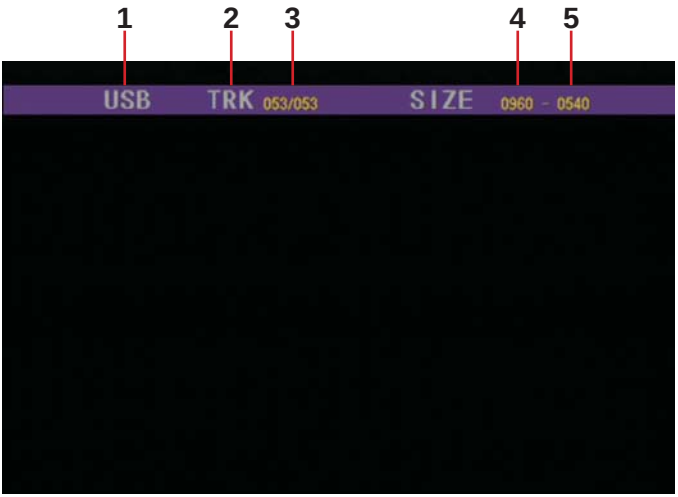
FILE REP
Repeat the current photo indefinitely.

DIR REPEAT
Same as **SEQ PLAY** but will repeat playback of the entire directory indefinitely.

Select the desired **Repeat Mode** and press the **OK** button on the IR remote control. This setting is global for all photo playback. Any photos that are played after this setting has been changed will execute whichever **Repeat Mode** was selected. The **Repeat Mode** will remain until changed.

PHOTO INFORMATION DISPLAY PANEL

Pressing the **Display** button on the IR remote while playing a movie will bring up the **Photo Information Display Panel** as shown below (4C-7).



4C-7

1 RECORDING MEDIUM
This indicates what type of recording device is connected. This will always be listed as USB.

2 TRACK
This indicates that currently a track is playing.

3 TRACK NUMBER
This shows the track number of the currently playing movie file. The format is as follows:

000/000

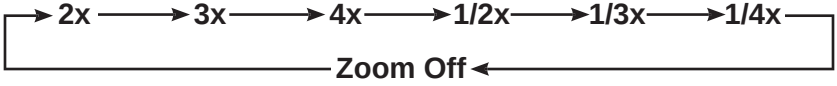
Track Number ***Total Number Of Tracks***

4 PHOTO WIDTH
This displays the current photo's pixel width.

5 PHOTO HEIGHT
This displays the current photo's pixel height.

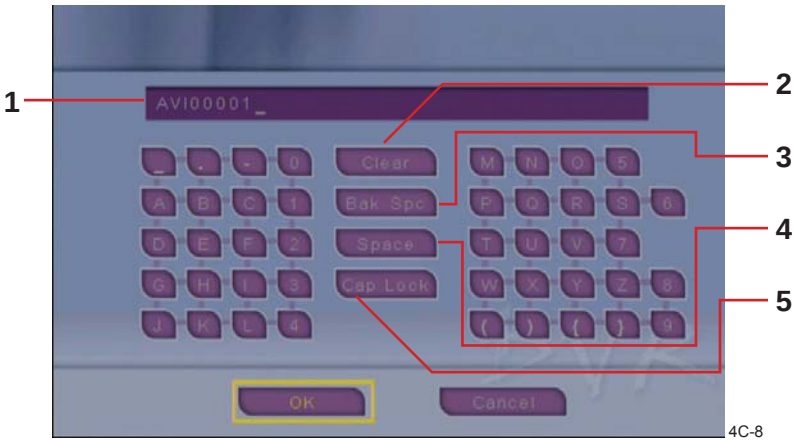
ZOOM FUNCTION

The **Zoom** button can be used to focus in or out of a photo during playback. To zoom into the movie, press the **Zoom** button on the IR remote control during playback or when the movie is paused. The zoom multiplier follows the order below:



RENAMING PHOTOS

Movies can be renamed using the on-screen keyboard. From the **Photo Menu**, select the file that you wish to rename and press the **Rename** button on the IR remote control. The on-screen keyboard (4C-8) will appear.



1 NAME FIELD
The current name should be indicated here. When characters are selected they will be displayed in this field.

2 CLEAR KEY
This will clear the entire **Name Field**.

3 BACK SPACE KEY
This key will delete the previous character.

4 SPACE KEY

This key will add a space in the **Name Field**.

5 CAPS LOCK KEY

This key will toggle between lowercase and uppercase letters. By default, all keys will appear in the uppercase form.

Using the **Directional** buttons on the IR remote control, select the key you wish to use and press the **OK** button to use it. Once the desired name has been entered, navigate to the OK key and press **OK** on the IR remote control to confirm changes. You can cancel the entire process and revert back to the previous name by selecting the CANCEL key before any new changes have been saved.

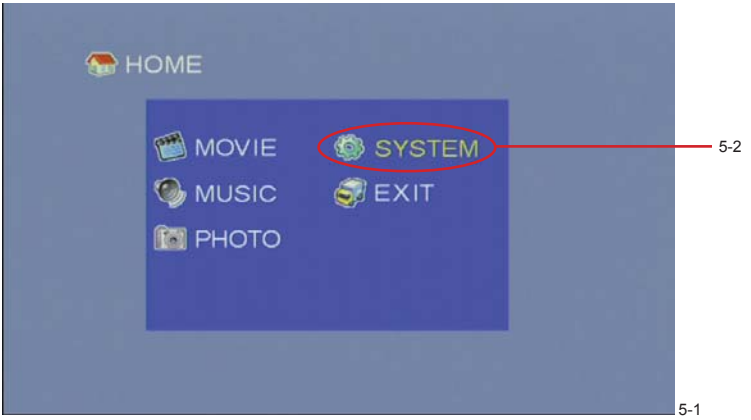
SYSTEM CONFIGURATION

SECTION 5

The Gefen TV SD PVR has a number of setup options that can all be accessed via the **System Menu**.

SYSTEM MENU

From the **Home Screen** (5-1) in **USB Mode**, navigate to the **System Menu** (5-2) listing and press the **OK** button.



5-1

The **System Menu** (5-3) is where all setup and format options are accessed.

5-3

1 For setup options, select the **Setup** option and press the **OK** button on the IR remote control. Please proceed to page 40.

SETUP MENU

SECTION 5A

The **Setup Menu** is separated into two main categories. The **System** and **A/V Set** sections. The sections have the following configuration options:

SYSTEM

TV System	**System Language**	**Set Date**	**Reset Settings**
Screen Saver	**Time Format**	**Set Time**	

A/V SETUP

Video Output	**TV Type**	**Brightness**

SYSTEM

To navigate this menu system, use the **Directional** keys on the IR remote control to move in and out of menu options. Highlight a menu option and press the **OK** button to confirm a menu item change. Currently set menu options are marked with a yellow asterisk.

TV SYSTEM

This will change the TV output standard.

OPTIONS: NTSC (60 Hz output - Default), PAL (50 Hz output).

SCREEN SAVER

This option will enable or disable the screen saver.

OPTIONS: OFF (Default), ON.

SYSTEM LANGUAGE

This changes the language for all menu options and labels.

OPTIONS: ENGLISH (Default), CHINESE, DUTCH, SPANISH, FRENCH, AND PORTUGESE.

TIME FORMAT

This will change the way that the date and time appear in all menu systems.

OPTIONS: M_D_Y_12 (Default), M_D_Y_24, D_M_Y_12, D_M_Y_12, D_M_Y_24, Y_M_D_12, Y_M_D_24.

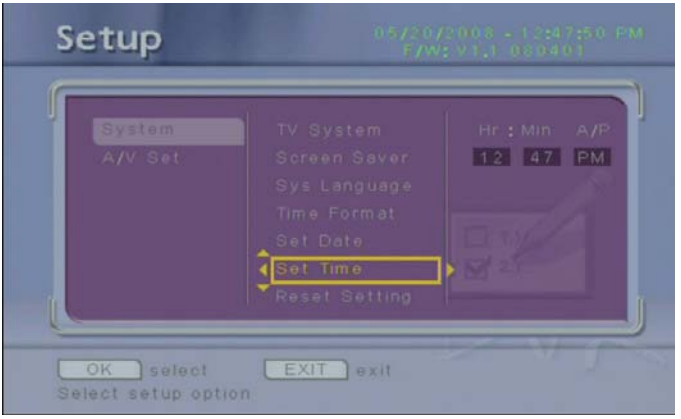
NOTE: M = Month D = Day Y = Year 12 = 12 hour 24 = 24 hour

SET DATE

This will set the date that is shown on all system menus.

OPTIONS: Use the ◄ and ► **Directional** buttons to move between fields, and the ▲ and ▼ buttons to change the values.

SET TIME



This will set the time that is shown on all system menus.

OPTIONS: Use the ◄ and ► **Directional** buttons to move between fields, and the ▲ and ▼ buttons to change the values.

RESET SETTINGS

This will reset all system options to their default factory settings.

OPTIONS: Use the **OK** button on the IR remote control to initiate a factory reset.

A/V SETUP

VIDEO OUTPUT

This will set the output to either YCbCr or Pan and Scan.

OPTIONS: YCBCR (Default), P-SCAN.

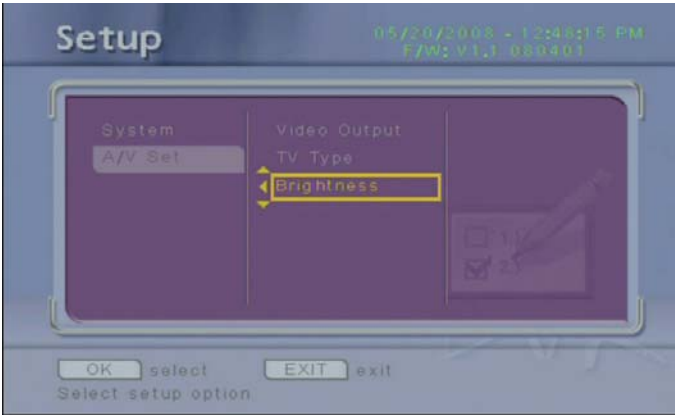
TV TYPE

This will set the output video format

OPTIONS: PS 4:3, LB 4:3, 16:9

NOTE: PS = Pan And Scan LB = Letterbox

BRIGHTNESS



This will adjust the brightness of the video output.

OPTIONS: Press the **OK** button to bring up the brightness menu screen.

Use the ▲ and ▼ buttons on the IR remote control to change the brightness level. Default brightness level is set to 6.

SPECIFICATIONS

Video Amplifier Bandwidth ..... 74.5 Mhz

Input Video Signal ..... 1.2 Volts p-p

Input DDC Signal ..... 5 Volts p-p (TTL)

Single Link Range ..... 480i and 576i

Input Connectors ..... Composite (TV), S-Video, Component

Output Connectors ..... Composite (TV), S-Video, Component

Audio Connections ..... Analog L/R, input and output

Remote Control ..... Infra-Red handheld type

Power Consumption ..... 20 Watts (maximum)

Dimensions ..... 6.9”W x 2.1”H x 6.9”D

Shipping Weight ..... 5 lbs.